

Surname and name Pablo Haya Savcedo List number 16

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TAX IDENTIFICATION NUMBER

Imagine you are working in an office whose aim is to provide a TIN –tax identification number- to people.

In the morning, you see two people whose IC –identity card- are: **73451790** and **32645891** respectively.

What are the corresponding letters you have to add to turn them into a TIN?

You have the table of letters on the right.

0 T	1 R	2 W	3 A
4 G	5 M	6 Y	7 F
8 P	9 D	10 X	11 B
12 N	13 J	14 Z	15 S
16 Q	17 V	18 H	19 L
20 C	21 K	22 E	

73451790 123
 044
 215
 081
 127
 129
 140
 03

32645891 123
 96
 044
 215
 088
 199
 151
 13

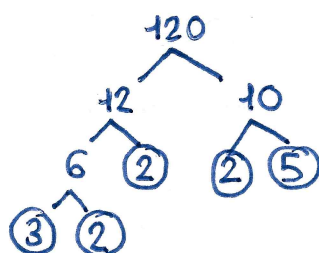
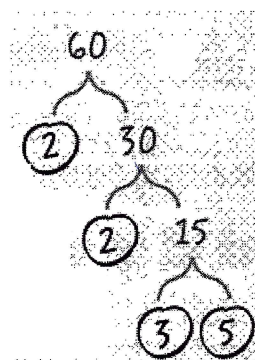
73451790	W	32645891	J
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FACTOR TREES

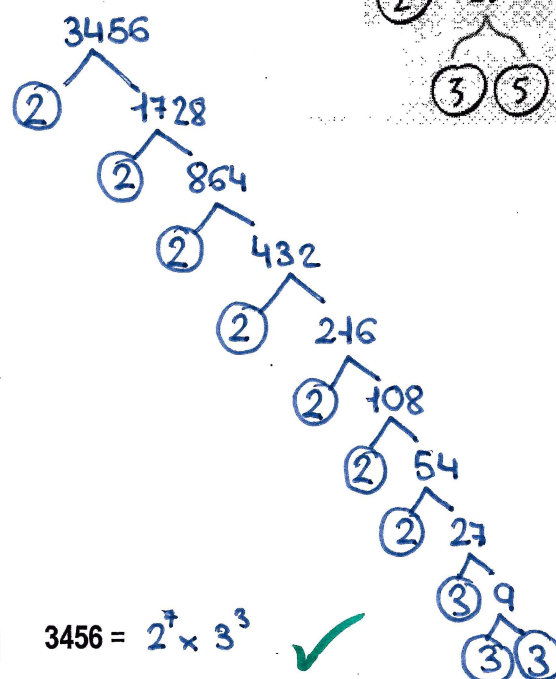
The factor tree is a simple way to split a number into factors and to get the prime factorization for a number.

Following this method, you must factorize the numbers: 120 and 3456

Write on the bottom the resulting prime factorization



$$120 = 2^3 \times 3 \times 5$$



$$3456 = 2^7 \times 3^3$$

SIEVE OF ERATOSTHENES

Here are the first 150 natural numbers. You must find out the prime numbers from 0 to 150 by following the method used by Eratosthenes. That is, when you find a prime number made a circle around it and cross out all its multiples. The first number that isn't crossing out will be the next prime number. You will proceed in the same way until you complete the chart.

1	(2)	(3)	4	(5)	6	(7)	8	9	10
(11)	12	(13)	14	15	16	(17)	18	(19)	20
21	22	(23)	24	25	26	27	28	(29)	30
(31)	32	33	34	35	36	(37)	38	39	40
(41)	42	(43)	44	45	46	(47)	48	49	50
51	52	(53)	54	55	56	57	58	(59)	60
(61)	62	63	64	65	66	(67)	68	69	70
(71)	72	(73)	74	75	76	77	78	(79)	80
81	82	(83)	84	85	86	87	88	(89)	90
91	92	93	94	95	96	(97)	98	99	100
(101)	102	(103)	104	105	106	(107)	108	(109)	110
111	112	(113)	114	115	116	117	118	119	120
121	122	123	124	125	126	(127)	128	129	130
(131)	132	133	134	135	136	(137)	138	(139)	140
141	142	143	144	145	146	147	148	(149)	150



Finally, write down below the getting list of prime numbers from 1 to 150. That is,

2; 3; 5; 7; 11; 13; 17; 19; 23; 29; 31; 37; 41; 43; 47; 53; 59; 61;
67; 71; 73; 79; 83; 89; 97; 101; 103; 107; 109; 113; 127; 131; 137;
139; 149.